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(54) Title: MULTILAYER SHRINK FILM

Layers	% Nom.	Change %	Example 1	Example 2	Example 3	Example 4	Example 5	Example 6	Example 7	Example 8	Example 9	Example 10	Example 11
A	20	± 10	Ionomer	Ionomer	Ionomer	Ionomer	Ionomer	Ionomer	Plastomer	LLDPE	LDPE	Ionomer	Ionomer
B	10	± 5	Teflonomer	Teflonomer	Teflonomer	Teflonomer	Teflonomer	Teflonomer	Modified LLDPE	Modified LLDPE	EVA + ethylene methacrylic acid copolymer	Teflonomer	Teflonomer
C	15	± 5	PA 6/68	PA 6/68 + aliphatic PA	PA 6/68	PA 6/68	PA 6/68	PA 6/68 + amorphous PA	PA 6/68 + amorphous PA	PA 6/68 + PA 6	PA 6/68	PA 6/68	PA 6/68
D	15	± 5	Teflonomer	Teflonomer	Teflonomer	Teflonomer	Teflonomer	Teflonomer	Modified LLDPE	Modified LLDPE	EVA + ethylene methacrylic acid copolymer	EVA + ethylene methacrylic acid copolymer	EVA + ethylene methacrylic acid copolymer
E	15	± 5	PA 6/68	PA 6/68	PA 6/68	PA 6/68 + amorphous PA	PA 6/68 + amorphous PA	Aliphatic PA	PA 6/68	PA 6/68	PA 6/68	PVA	PVA
F	10	± 5	Teflonomer	Teflonomer	Teflonomer	Teflonomer	Teflonomer	Teflonomer	Modified LLDPE	Modified LLDPE	EVA + ethylene methacrylic acid copolymer	EVA + ethylene methacrylic acid copolymer	EVA + ethylene methacrylic acid copolymer
G	15	± 10	PA 6/68	PA 6/68	PA 6/68	PA 6/68	PA 6/68	PA 6/68	PA 6/68	PA 6/68	PA 6/68	PA 6/68	PA 6/68

(57) Abstract: This invention relates to a film formed by overlaid layers constituted by thermoplastic polymers of different natures, wherein at least two layers are constituted by a polyamide. Said film is heat shrinkable, being biaxially oriented. It is also perfectly transparent after shrinkage and has high mechanical characteristics and barrier properties to gases, in particular oxygen, and finally, presents a low curling effect. The film according to the invention comprises a plurality of overlaid layers constituted by non-crosslinked thermoplastic polymers of different natures, wherein the material that constitutes one of the outer layers melts at a lower temperature than the materials that constitute the other layers. It also includes three layers constituted by polymers having a Young's modulus substantially higher than that of the polymers which constitute the other layers. Said film is characterised in that one of said three layers with a higher Young's modulus is on the outside of the film, whereas the other two layers with a higher Young's modulus are on the inside of the film. Moreover, each of said three layers with a higher Young's modulus is separated from the other layers with a higher Young's modulus by at least one layer with a lower Young's modulus.

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